FreePDF XP
Administration manual

Current Version at finishing this manual: FreePDF XP Beta 21

Contents:

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- the author is not responsible for possibly damage, which is caused by a use of FreePDF.

- the author does his best to release virus-free Software. The author is not responsible however for damage, through possibly Virus infections.

- for the software there is no email support for free.

- you receive support to FreePDF XP in the manual and under http://shbox.de/english.htm.

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- author of FreePDF XP is Stefan Heinz

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Setup automation

FreePDF XP RessourceKit

In the FreePDF RessourceKit you will find helpful files for setup automation. The FreePDF XP RessourceKit you can download at http://shbox.de/FreePDFXPRessourcKit.zip.

Pre Install

To installing FreePDF XP GhostScript 7.xx or 8.xx must be installed. More information about GhostScript you get on www.ghostscript.org.

Note: Its strongly recommended to use GhostScript 8, specially 8.13. GhostScript 7 do not support eBooks!

Unattended GhostScript Setup

For batch-installing GhostScipt do this:

* Run the GhostScript Setup (gs813w32.exe for example) hit *Setup* and let it open
* Switch to the explorer and open %temp%
* Search the subdirs for setupgs.exe, copy all Files to an other, shared, folder
* Run the setup from the users machine like this:

    \\server\GhostScript$\setupgs.exe C:\Program Files

Note: You should not install GhostScript over an existing GhostScript Version. To check this you can use fpsetup.exe. Fpsetup.exe will rise a errorlevel 15, if GhostScript was not found. See also the FreePDF Setup sample Batch File

Unattended FreePDF Setup

There are three ways for installing FreePDF XP unattended:

1. Using System Priority

    This would be an unorthodox way to install FreePDF, but maybe someone use it for a Auto-Install Tool.

2. Setting environment-variable fpsetup=1

    You can use the setup packet (FreePDFXP*.exe) you downloaded for an unattended setup. If you like to get a feedback from the setup you have to set another variable too: *set fpdebug=1*

    With set *fpDebugFile=C:\fpSetup.log* you can select the logfile used by fpsetup.exe. This should be a local file or a network share, witch can be accessed by the installation process!

3. Running fpsetup.exe /q

   This is the best way for a autosetup, because you can interact with the setup failures using errorlevel.

   To do this you first have to unpack the setup files:

   - Run the FreePDFXP*.exe setup file and let it unused
   - Open a explorer window and switch to %temp%
   - Search the sub folders for the FreePDF setup files
   - Copy all files to an other, shared folder

Unattended FreePDF Setup sample script

After you unpacked the GhostScript and FreePDF XP setup files to a network shared folder you can create a batch script for unattended setup of FreePDF XP like this simple example:

```
@echo off
Z:\FreePDF\fpsetup /q
goto Step%errorlevel%

:Step15
REM GhostScript not found
Z:
cd Z:\GhostScript
Z:\GhostScript\setupgs.exe C:\Program Files
Z:\GhostScript\fpsetup /q

:Step0
```

This is just a principial sample. To optimize this script, please see all fpsetup.exe errorlevels and there meanings.

Detailed example

A fully sample for an server-based setup you will find in the FreePDF RessourceKit at
http://shbox.de/FreePDFXPRessourcKit.zip. This Sample is based on two BAT files; the 1st is copying the
2nd to C:\, runs the script and cleanup after running. The 2nd script connects a network drive, installs
FreePDF XP and GhostScript and disconnects the share then.

1st script: Hier_klicken_für_FreePDF_XP.bat (means: Click_here_for_installing_FreePDF_XP)
2nd script: fpAutoSetup1.bat

Sorry for linking to this german files. But with a little work and this manual it should be not a problem to
translate it in your prefered language.

Please note:

– You have to change the paths to your environment
– The %Log% Destination must have public write permissions
– The installing user must have administrativ privileges on the destination computer

Uninstallation of FreePDF

For uninstallation please use the Control panel*, Software*.

After uninstall there is a directory c:\Program Files\FreePDF_XP wich includes the uninstall
program fpsetup.exe. Its save then to delete this folder.

FreePDF on a Terminal Server

FreePDF should work on a Terminal Server in the same way than on Windows XP with multiple users.

Please see the FreePDF Internals for more details, how FreePDF works.

There are a few known problems.

Windows Spooler Priority

In case of a new Print-Job, Redmon will write a temporary PS file usually to C:\Windows\Temp (the system Temp folder) and runs fpRedMon.exe.

fpRedMon.exe extracts the original owner of the PDF File and moves it to a common Temp folder - usually All Users\FreePDF. To make sure, that all users have permissions to read and delete this files, fpRedMon.exe tries to set the permission everyone:RWXD to each file. Normally this is possible, because fpRedMon.exe is started by Redmon, witch is started by the spooler, witch works with system priority.

Make sure: If you changed the user, witch runes the spooler service to a non-administrator, you have to make sure by your own, that all users of the computer have permissions to list the directory psDir (see Registery Parameters of fpAssist.exe). Also they need permissions to read and delete each file stored into this folder.

Because this files only be moved from C:\Windows\Temp, they maybe got a access control list with the permissions of C:\Windows\Temp, so that you have to change the permissions for new files in this folder too.

Common PS files folder

FreePDF uses a common file folder, where all PS Files will be moved. By default this would be User Profiles\All Users\FreePDF. To change this, please use the registry Key listed at fpAssis.exe Registery Keys.

If the common PS files folder is a problem or a security issue, please let me know.

msvbvm50.dll and Server 2003

Because of a non-understandable reason Microsoft include the msvbvm50.dll in Windows 2000 and Windows XP, but not in Server 2003.

This dll is needed by FreePDF XP and must be copied into the System32 folder before installing. Because the dll is nearly everywhere available i will not deliver it with FreePDF XP.

FreePDF Internals

FreePDF.exe can be run by several ways. The normal way - File / Print - would start this process:

1. The spooler

   The Windows spooler will store the print-job and forward the data's to the Port PDF1:. This Port is controlled by Redmon (http://www.cs.wisc.edu/~ghost/redmon/).

2. Redmon

   Redmon will run the redmon-tool redrun.exe, witch writes the print-job to a temporary file. This would be stored usually in the %temp% folder. If the spooler runs as System, this would be C:\Windows\temp for example.

3. fpRedMon.exe

   fpRedMon.exe is a part of FreePDF XP and will be started with the PS file as command. fpRedMon.exe opens the PS file and extracts the original owner. fpRedMon.exe then moves the file to the psDir, wich usually is Profiles\All Users\FreePDF and rename it to USeRNAME000001.ps (in case its the first File for the User). After this, fpRedMon.exe tries to set the NTFS Permission Everyone:RWXD (if its a NTFS Drive).

4. fpAssist.exe

   This tool searches every second for a new file named USERNAME*.ps. If found one, the dialog box will rise.

   Now a user have to press one of the buttons to run FreePDF.exe.

5. FreePDF.exe

   FreePDF.exe will be called with the special command „/3" (see FreePDF shell switches). FreePDF will make a PDF file by calling gswin32c.exe and do the commands after this - open the PDF or open a email for example

6. fpMailer.exe

   In case the user selected the email-button, fpMailer will be run by FreePDF.exe. This will read the default Email Application in HKey_Local_Machine\Software\Clients\Mail. This Application will be called to open an new mail attached with the PDF File.

FreePDF Setup Resources

Known environment variables

fpsetup.exe can use this environment variables. You can, but not have to use this settings.

Variable	value	meaning
fpDebug	1	Setup will try to create a log file c:\fpsetup.log
fpDebugFile	Filename	if fpDebug=1, setup will try to create a log file [Filename]. If filename contains spaces, it must be included in "- characters
fpsetup	1	Unattended setup
fpsetup	remove	Unattended remove

Shell switches

fpsetup.exe can be run with this switches. You can, but not have to use this settings. You need to unpack the FreePDFXP*.exe packet and run fpsetup with this switches.

Switch	value	meaning
/u	none	Unvisible run of setup
/q	none	Unattended setup
/q /r	none	Unattended uninstall
debugfile=	Filename	Setup will try to create a log file [Filename]. If Filename contains spaces, it must be included in "- characters
setup	none	Interactive setup
/r	none	Interactive remove
/IsAcrobatInstalled	none	Returns Errorlevel 1, if a PDF Reader is installed
/IsGhostScriptInstalled	[Version]	Errorlevel 0 = not instllied, 1 = installied, 2 = newer version installed
/IsFreePDFinstalled	none	Errorlevel 1 = FreePDF is installed
/IsFreePDFXPinstalled	none	Errorlevel 1 = FreePDF XP is installed
/RegVal Key=Value	Key=Value	Saves Key and its Value under HKey_Local_Machine\Software\shbox\FreePdfXp
/RegUserVal Key=Val	Key=Value	Same as /RegVal, but using HKey_Current_User

Registery Keys

Setup can be customized by the following Registery keys.

- CU means HKey_Current_User\Software\shbox\FreePdfXp
- LM means HKey_Local_Machine\Software\shbox\FreePdfXp

key	value	meaning
LM Debug	1	Setup will try to create a log file c:\fpsetup.log

Setup Errorlevels

Setup reports the following errorlevels:

Errorlevel	Cause
0	Setup successful
4	Copy error: Source file not found
5	Copy Error: Permission denied
6	Copy Error: Drive not found
10	FreePDF XP do not run on Windows 9x
11	FreePDF cannot be installed on Windows NT without printer driver is already present
15	No GhostScript found
40	Folder C:\Program Files\FreePDF_XP could not be created („C:\Program Files" depends on you Windows version and could be something similar).
110	Cannot enumerate Printers
1000	Cancel button pressed

FreePDF Assistant Resources

Registery Keys

fpassist.exe can be customized by using the following registry settings.

- CU means HKey_Current_User\Software\shbox\FreePdfXp
- LM means HKey_Local_Machine\Software\shbox\FreePdfXp

- Fat printed keys can be changed by using freepdf.exe
- All Other keys are for special customization of FreePDF and should be used with care!

key	value	meaning
CU Debug	1	fpassist will try to create a log file desktop\fpassist.log
CU/LM APol	see below	Disable some fpassist features. see below.
CU/LM ADefault	email	Like pushing the Email button. Dialog will not rise!
CU/LM ADefault	saveas	Like pushing the Save As button. Dialog will not rise!
CU/LM ADefault	desktop	Like pushing the Desktop button. Dialog will not rise!
CU/LM Desktop	Path	Replacing path for the desktop button. Path must end with a backslash (Like C: \ PDF \ )
CU/LM DesktopCaption	Name	Replacing caption for the desktop button. Please make sure, that Name fits in the button. With „&" before a character you can set a hokey to use with *Alt*.
LM fpDir	Path	Setup path of FreePDF XP. Path must end with a backslash (Like C: \ PDF \ ). • Not intended for change by User!
CU LastDir	Path	Last folder used by the save button. Path must end with a backslash (Like C: \ PDF \ ). • Not intended for change by User!
CU OpenPDF	1 or 0	Selects, whether or not to open the new PDF file. If not exist OpenPDF will get 1. This value is the same as the OpenPDF check box in the dialog box.
CU/LM DefaultProfile	Profile Name	Name of the default profile. A profile containing PDF settings. If not exist, the first profile will be used.
LM psDir	Path	Source folder for ps files. Set by fpRedMon.exe. Path must end with a backslash (Like C: \ PDF \ ). • Not intended for change by User!
CU Language	Number	The current language of FreePDF XP. 1 means German 2 means English 3 means Italian (Not this time) 4 means Dutch (Not this time)

Working with the policy

The Registery keys APol can be used to customize the FreePDF Assistant. The listed values are known by fpassist.exe and will be loaded each time the dialog rise.

- Both values - LM and CU will be added to a single string
- If a „|" is found in this string, the values after the sting will be ignored. This can be used for restrictions, that can't be revoked.
- First the disable options will be set
- Second the enable options will be set
- A enable-value in HKey_Local_Machine make no sense.

- All values ca be used as disable*value* or enable*value*. There must be no separator between values.
- You can set this values by using *FreePDF / Edit / Options* much easier.

value	*meaning*
quality	Disable/enable the *Profiles* combo box
filename	Disable/enable the *Filename* field
openpdf	Disable/enable the *open PDF* check box
email	Disable/enable the *email* button
saveas	Disable/enable the *save as* button
desktop	Disable/enable the *to Desktop* button
multidoc	Disable/enable the *add to next PDF* button
settings	Disable/enable the configuration page in *FreePDF / Edit / Options*
encryption	Disable/enable the *Encryption* check box (Using GhostScript 8.14 or higher)

Note: Disabling all items means the user gets a empty blue window in state of the dialog.

Example 1:   Disable Desktop button for all users but Administrator

- Add at HKey_Local_Machine\Software\shbox\FreePdfXP a value APol containing the following string:

  disabledesktop

- Login as Administrator
- Add at HKey_Current_User\Software\shbox\FreePdfXP a value APol containing the following string:

  enabledesktop

Example 2:   Disable the Profile combo box for all users no matter what they set to
            HKey_Current_User\shbox\FreePdfXP\APol

- Add at HKey_Local_Machine\Software\shbox\FreePdfXP a value APol containing the following string:

  disablequality|

FreePDF.exe Resources

Shell switches

freepdf.exe can be run with this switches. Some of this parameters was intended for internal use. „Filename" means a full path notation. If Filename includes spaces, Filename must written as "C:\My PDF Files\Filename.pdf" between "-characters.

Switch	meaning
/a	Usage 1: Filename.ps /a • Calls FreePDF.exe to create a Filename.pdf Usage 2: Filename.ps /a /d • Calls FreePDF.exe to create a Filename.pdf and delete Filename.ps Usage 3: Filename.ps /a /x • Calls FreePDF.exe to create a Filename.pdf and end FreePDF
/q /o	Usage: /q /o Filename.pdf Filename.ps • Create Filename.pdf and exit FreePDF. Filenema.ps will not be deleted. • This way is used by Interleaf / Quicksilver using publishing a document • Compatible to Adobe Distiller.
/m	Usage: /m Filename.pdf Filename1.ps Filename2.ps Filenamen.ps • Creates Filename.pdf. Filename*.ps will not be deleted. • Filename*.ps also can be a PDF file, if its not encrypted This call is used by fpjoin.exe
Filename.ps	Usage: Filename.ps • Opens FreePDF and displays Make_PDF button • After create Filename.pdf, a Open button will be shown
/3	Usage 1: /3 ToDo "Profile" Filename.pdf Filename.ps • Creates Filename.pdf with profile "Profile" and run ToDo commands Usage 2: /3 ToDo "Profile" Filename.pdf File1.ps File2.ps FileN.ps • Creates Filename.pdf with profile "Profile" and run ToDo commands ToDo can be: • delps: Deletes the Filename.ps file(s) • email: Open PDF in a new email • open: Open PDF in Acrobat for preview • save: Exit FreePDF • end: Exit FreePDF If "Profile" is not present or misspelled, the internal fail back profile will be used.

Registery Keys

freepdf.exe can be customized by using the following registry settings.

- CU means HKey_Current_User\Software\shbox\FreePdfXp
- LM means HKey_Local_Machine\Software\shbox\FreePdfXp

- Fat printed keys can be changed by using freepdf.exe
- All other keys are for special customization of FreePDF and should be used with care!

key	value	meaning
CU Debug	1	freepdf.exe will try to create a log file desktop\freepdf.log
CU/LM FPol	see below	Disable some freepdf features. see below.
CU/LM DefaultProfile	Profile Name	Name of the default profile. A profile containing PDF settings. If not exist, the first profile will be used. This setting will be overwritten by fpassist.exe.
CU Language	Number	The current language of FreePDF XP. 1 means German 2 means English 3 means Italian (Not this time) 4 means Dutch (Not this time)
LM FPdir	Path	Setup path of FreePDF XP. Path must end with a backslash (Like C: \ PDF \ ). Not intended for change by User!
CU/LM psFor	Username	The PDF user name. If not found or empty the Windows user name will be used.
CU/**LM gswin32c**	Path + .exe	The gswin32c.exe used by FreePDF XP. If you have more than one GhostScript installed you can switch between the versions. Please note, that it is not recommended to install more than one GhostScript! With CU you can use a user-specific GhostScript (not recommended)
CU NoGsLog	1	Use no GhostScript log file. Usually the log file of GhostScript with the used FreePDF call will rise, if a PDF could not be created.
LM FpMailer	Path + .exe	Filename of fpmailer.exe. Only be used, if Outlook Express is the standard mailer. Otherwise program files\FreePDF_XP\fpmailer.exe will be used.
CU/LM ViewGsLog	0	Disables viewing GhostScript messages

Working with the policy

The Registery keys FPol can be used to customize freepdf.exe. The listed values are known by FreePDF and will be loaded each time FreePDF starts.

- Both values - LM and CU will be added to a single string
- If a „|" is found in this string, the values after the sting will be ignored. This can be used for restrictions, that can't be revoked.
- First the disable options will be set
- Second the enable options will be set
- A enable-value in HKey_Local_Machine make no sense.

- All values ca be used as disable*value* or enable*value*. There must be no separator between values.
- You can set this values by using *FreePDF / Edit / Options* much easier.

value	meaning
joinpdf	Disable/enable the Menu *Join PDF*
profiles	Disable/enable the *profiles* combo box
file	Disable/enable the menu *File*
options	*Disable/enable the menu Options*
encryptpdf	Disable/enable the menu *Encrypt PDF file*

Example 1:   Disable menu Options for all users but Administrator

- Add at HKey_Local_Machine\Software\shbox\FreePdfXP a value FPol containing the following string:

  disableoptions

- Login as Administrator
- Add at HKey_Current_User\Software\shbox\FreePdfXP a value FPol containing the following string:

  enableoptions

Example 2:   Disable the Profile Combo box for all users no matter what they set to
  HKey_Current_User\shbox\FreePdfXP\FPol

- Add at HKey_Local_Machine\Software\shbox\FreePdfXP a value FPol containing the following string:

  disableprofiles|

Configure FreePDF

Options

FreePDF can be configured by opening Edit, Options:

- With *Identification* you can set the user name, that will be stored in each PDF file.

- With *Common Options* you can set the FreePDF XP Language and activate a Debug-Mode

- With *Paths* the GhostScript version can be changed

- With *FreePDF Assistant* and *FreePDF main application* you can disable some FreePDF features.

- With *Profiles* you can create and delete PDF Settings.

More Information for FreePDF XP

Under http://shbox.de/fpxpen.htm you will find this:

- FreePDF XP FAQ (German, online translated by Google)

  Frequently asked questions about FreePDF XP

- FreePDF XP Administration Manual

  This manual.

- In the past i have had a large amount of emails asking questions, that already has been written in the manual. Therefore, if you like to get email support from me, i will like to get a donate within the range of 10 Euro/US$. My Email for this is the   FreePDFXP @ shbox . de

This manual originally is English.

Stefan Heinz, 2004